

# **JOHN EDWARDS HIGH SCHOOL**



## **BLACKHAWK COURSE DESCRIPTIONS**

**2025-2026**

# BLACKHAWK COURSE DESCRIPTIONS

## Introduction

This Course Description Handbook deals with the courses that are available to you at John Edwards High School. Some of them are required, and all students must take them as a fundamental part of their education, and as requirements for a high school diploma. All other courses are electives.

The selection of courses you will take in high school should be given careful consideration. Choose your courses according to your abilities, interests, and plans for the future. You should decide early in your high school career about your plans to continue your education beyond high school. Further education may involve apprenticeships, the military, trade schools, as well as technical colleges, and four-year colleges. Many colleges have high scholastic standards you must meet, and may have specific subject requirements you must satisfy before admission. It is common for colleges to require that you rank in the upper half (or higher) of your class and that you have a strong background in English, Social Studies, Science, and Mathematics, and some require Foreign Language. If you are not planning to continue your education beyond high school, you should enroll in courses that would best prepare you to pursue the career of your choice.

Discuss your courses and plans with your parents/guardians, teachers, principal, or counselor. Your counselor is available to help you at any time with your educational and career plans. The counselor is specially trained to assist you with this type of planning. Refer to the following pages for a more detailed explanation of recommended programs and how the counselor can help you plan for the future.

## High School Planning

You are about to make some of the most important decisions of your whole school career. Those decisions involve choosing courses and planning for your future. These are just two of the many important steps that should be considered and talked over with your parents/guardians, teachers, or school counselor, for each is vitally interested in your future and can give you some good advice.

The Counseling Department can assist you in the following ways:

1. YOUR ACADEMIC & CAREER PLAN A four-year plan is a tool to help you map out your high school years to help you reach your goals for life after high school. By planning, you can more easily see how courses are related to your plans beyond high school. A grid is provided in this handbook for making your four-year plan.

2. MATERIALS AVAILABLE IN THE SCHOOL COUNSELING DEPARTMENT The school Counseling Department has a great many pamphlets, books, and catalogs on many occupations, colleges, vocational schools, trade schools, apprenticeships, and the military. You can check out these materials to take home to study. The library also has these resources.

3. TESTING PROGRAM. During high school, you will have the opportunity to participate in various assessments that are designed to assist you in your high school and post-secondary planning. The purpose of these assessments is to gather information to help you develop a more realistic picture of your strengths and weaknesses. All test results are given to you and your parents or guardians, along with helpful interpretive information. The assessments may include the following:

a. 9<sup>th</sup> Grade:

ACT PRE Secure – 9<sup>th</sup>-grade students will take the ACT PRE Secure in the Spring. This computerized exam assesses students' progress in English, Math, Reading, Science, and Writing.

b. 10<sup>th</sup> Grade:

i. Preliminary Scholastic Assessment Test/National Merit Scholarship Qualifying Test – a preliminary SAT, which helps you to prepare to take the SAT college entrance examination, as well as allows you to participate in the National Merit Scholarship competition. A fee is charged for the PSAT, however, students who qualify for free or reduced lunch may request a fee waiver.

ii. ACT PRE Secure – 10<sup>th</sup>-grade students will take the ACT PRE Secure in the Spring. This computerized exam assesses students' progress in English, Math, Reading, and Writing.

iii. Wisconsin Forward – This new spring assessment will measure students' progress in Social Studies.

c. 11<sup>th</sup> Grade:

i. Preliminary Scholastic Assessment Test/National Merit Scholarship Qualifying Test – a preliminary SAT, which helps you to prepare to take the SAT college entrance examination, as well as allows you to participate in the National Merit Scholarship competition. A fee is charged for the PSAT, however, students who qualify for free or reduced lunch may request a fee waiver.

ii. ACT Plus Writing – The ACT Plus Writing will be administered at John Edwards High School, at no expense, to all 11<sup>th</sup>-grade students as per the current Wisconsin Department of Public Instruction partnership with ACT. The test is typically administered in March. The test consists of four multiple-choice tests; English, Math, Reading, and Science; and a 30-minute essay test that measures student writing skills.

iii.

d. 12<sup>th</sup> Grade:

i. ACT (American College Test) or the SAT I (Scholastic Assessment Test) or the Accuplacer. These tests are required for admission to post-secondary educational institutions. Fees are charged for the ACT, SAT I, and Accuplacer. Fee waivers are available to qualifying students.

## **Graduation Requirements**

Port Edwards School District policy states that in order for one to graduate from John Edwards High School one must earn a minimum total of 23.0 high school credits.

English.....	4.0 credits	Science.....	3.0 credits
Social Studies.....	4.0 credits	Physical Education.....	1.5 credits
Mathematics.....	3.0 credits	Health.....	.5 credit
		Financial Literacy .....	.5 credit

The remaining 7.0 credits needed to achieve the 23.0 credit minimum requirement may be selected from any of the available course offerings. The financial literacy emphasis course can be taken simultaneously to meet other credit. This requirement will begin with the class of 2019.

Beginning with the class of 2027, students will need 1.0 more of core credit.

Beginning in the 2016-2017 school year, in order to be eligible to graduate with a District high school diploma, a student must have taken and successfully completed the state-required civics exam as pursuant to the Board of Education Policy.

Wisconsin Statute also requires the completion of one trimester (.5 credit) of Health sometime during grades 7-12.

All graduation requirements and student obligations (fines, detentions, etc.) must be met before a student may receive a diploma or participate in the graduation ceremony. Appeals related to requirements, graduation, or participation in the graduation ceremony are subject to review by the high school principal. Students that plan on participating in the graduation ceremony must attend the graduation practice as scheduled. **IT IS THE STUDENT'S RESPONSIBILITY TO MAKE SURE THAT ALL GRADUATION REQUIREMENTS ARE MET.**

### **Independent Study Guidelines**

**Independent Study courses are available through cooperating faculty members for 12<sup>th</sup>-grade students. Please read the guidelines below carefully.**

All students enrolled in IS courses must have approval from the instructor and principal. A "B" average must be maintained in each IS course taken or the student will not be allowed to enroll in other IS courses in that discipline for the remainder of the year. Also, any student who abuses the privileges extended in IS courses will not be allowed to continue in other IS courses in that discipline.

### **Advanced Placement Guidelines**

#### **What is the Advanced Placement Program?**

The Advanced Placement program allows students to take college-level AP courses and/or AP exams that may give them college credit, placement, or both while they are still in high school.

#### **What courses are available?**

There are 32 courses in 19 different subject areas offered worldwide. They cover almost all curriculum areas. We currently offer AP Chemistry, AP Biology, and AP English at John Edwards High School.

#### **How may I take the Advanced Placement courses?**

Check with the Counseling Department to see if other AP courses are available through distance learning or the internet. Apex Learning ([www. APEXlearning.com](http://www.APEXlearning.com)) is a company that provides online internet AP courses.

#### **How do I get college credit?**

You must take an Advanced Placement exam in your subject area. Advanced Placement exams are administered in May. Exam scores range from 5 – 1 you must score a 3, 4, or 5 on the exam to be eligible for college credit or placement. The fee for each exam is approximately \$98. You may take the AP exam to qualify for college credit without having taken an AP course.

#### **Who pays for the Advance Placement exam?**

Wisconsin Statutes 120.12(22) requires your school district to pay the fee for taking Advanced Placement exams for students who qualify for free or reduced-price lunches. Other students not qualifying for free or reduced lunches must pay their own exam fees.

#### **Where may I find more information about the advanced placement program?**

Contact your counselor, high school teachers, or principal. The College Board, the developer of the AP program publishes brochures and course guides that are available to students. They can be contacted online at [www.collegeboard.org](http://www.collegeboard.org). The College Board has an online store where you can order their publications. It is <http://cbweb2.collegeboard.org/shopping/>.

## **John Edwards High School Virtual School Offerings**

The Port Edwards School District offers an opportunity to take courses through the Wisconsin Virtual School to students that have unique scheduling needs not met through the traditional scheduling process. The Wisconsin Virtual School (WVS) partners with school districts across the state to offer online education. Courses taken through the WVS will be included on the student's transcript and grade point average. All course requests for WVS will be reviewed by the high school principal on an individual basis. Wisconsin Virtual School courses cover a wide variety of topics. A complete list of Wisconsin Virtual School courses is available online at [www.wisconsinvirtualschool.org](http://www.wisconsinvirtualschool.org).

### **Additional Information**

Individualized courses will be made available to students with the approval of the principal when an IEP warrants such accommodation.

Port Edwards School District is also approved by the Wisconsin Department of Public Instruction to offer GED-Option 2 programming, under strict guidelines, to qualified credit deficient students. Please discuss concerns and requests for additional information with the school counselor or principal.

Apex or other individualized or distance learning-based courses are made available to students for credit or audit on a case-by-case consideration basis under certain circumstances, such as special needs, credit deficiency, or other at-risk needs. Requests for consideration are to be made in the school Counseling Department with the principal or designee granting approval or disapproval.

The Early College Credit Program (ECCP) is available to students meeting certain criteria who would like to take courses at a UW-System School or private, non-profit institution of higher education, to take one or more nonsectarian courses, for which the pupil may earn high school credit, post-secondary credit, or both. Students wishing to enroll in the ECCP program should contact the school Counseling Department.

Start College Now is available to students meeting certain criteria who would like to take courses at a Wisconsin Technical College and may earn high school credit, technical school credit, or both should contact the school Counseling Department for more information.

Under part-time open enrollment, a student enrolled in any high school grade in a public school may attend a public school in a non-resident district for the purposes of taking up to two courses at a time.

### **Information for Athletes - NCAA**

If you are thinking about playing sports in college, your high school planning is extremely important. The NCAA has minimum requirements that you must meet in order to be eligible to play college sports at any Division I or II colleges. The individual school sets eligibility at Division III schools. You must meet both academic eligibility requirements, based on a combination of your grade point average and your ACT or SAT I score, as well as completing NCAA-approved Core Courses in subjects such as English, Math, Social Sciences, and Physical or Biological Sciences, and approved elective credits.

The NCAA publishes a booklet called "Guide for the College-Bound Student-Athlete." Student-Athletes are encouraged to access the NCAA website at [www.ncaa.org](http://www.ncaa.org) to download a copy of the Guide, or for more information, including a list of NCAA-approved courses offered at John Edwards High School. To be eligible to play sports at Division I or II schools in college, you must register with the NCAA Clearinghouse, and complete the student release form during your junior year in high school at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net). It is the student's responsibility to determine the course selection of NCAA-approved courses.

### **Reporting Student Progress**

Infinite Campus is the student information system used by the Port Edwards School District. Infinite Campus enables parents/guardians and students the ability to view grades, assignments, attendance, lunch account balance, and the daily bulletin at any time. Contact the school Counseling Department if you have questions regarding Infinite Campus login information.

### **Summer School**

Summer school is available to students with a pass/fail grade and for middle school core subject recovery. Students taking summer school courses for credit make-up will have the original failing grade remain on their permanent transcript. A high school student may be able to attend summer school to earn .5 credit in a course where the student previously earned a failing grade. Enrollment in summer school is limited and will be granted first to seniors, then to juniors, followed by sophomores, and lastly freshmen. A student will be allowed no more than two absences for any reason during summer school and will be dropped on the third absence.

## **Attendance**

State statute 118.15 indicates the following: any person having under his or her control a child who is between the ages of 6 and 18 must cause the child to attend school regularly until the end of the school term, trimester of the school year in which the child turns 18 years of age.

Attendance and completion of high school is extremely important. Practicing good attendance in high school will make the student a better employee and/or student in the future.

## **Post-Secondary Planning**

You will have many different options available to you to help you get into the career of your choice. Careful planning while in high school will help you with your post-secondary (after high school) options. Different careers may require varying types and lengths of training.

School to Work – Students who have employment may receive credit for on-the-job work experience whereby they are assessed on skills as prescribed by the Wisconsin Work Skills Certification Program. This program is coordinated with the School to Work Coordinator and the school Counseling Department.

Dual Credit— Certain CTE and core classes offer students the ability to receive technical college credit and high school credit concurrently. This program is voluntary on the student's part and is provided at no cost to the student. This program is coordinated with the instructor, MSTC, and the school Counseling Department.

\*Apprenticeship Programs – a more formalized type of on-the-job training in which an employer provides both classroom and hands-on training for varying lengths of time.

\*Technical College – many careers require training at a technical college, such as Mid-State Technical College, lasting from a few weeks to two years (some may be slightly longer). There are 16 different campuses of the Wisconsin Technical College system located in many different parts of the state. Many different programs are offered through technical colleges, and for some programs, there is even an opportunity to transfer to a four-year college if desired. More information may be found in the *Wisconsin Technical College System Guidebook*, which you may obtain from the school Counseling Department.

\*Four-Year College or University – many careers require completion of a four-year college degree, and some may require students to complete a master's or doctoral degree. Wisconsin has excellent public and private colleges and universities.

- University of Wisconsin System - - with twenty-six campuses to choose from, the UW system offers students a variety of options, from the smaller two-year campuses offering general education requirements and associate of arts degrees to the larger four-year campuses offering bachelor's degrees or higher. Information about admissions requirements, majors, and more may be found in the *Introduction to the University of Wisconsin System* book, which you may obtain from the school Counseling Department.
- Wisconsin Private Colleges and Universities –there are twenty campuses of private colleges or universities in the state, offering a wide variety of degree programs, primarily bachelor's degrees, with fourteen campuses offering master's degrees as well. Admission requirements vary greatly by campus, and students may find more information in the booklet *Wisconsin's Private Colleges & Universities*, which may be obtained in the school Counseling Department.

\*Military – the six branches of the United States Military offer many different career-training options, allowing students to enlist right out of high school, attend one of the Academies, or enroll in a four-year college as part of the Reserve Officer Training Corps. Students interested in military service should speak to a recruiter, who visits the high school at varying times during the year, and also should be sure to take the ASVAB (Armed Services Vocational Aptitude Battery) during their junior year. More information may be found on Military.com.

## John Edwards High School Student Academic & Career Plan

Name: \_\_\_\_\_ Date Completed: \_\_\_\_\_ Class of \_\_\_\_\_ Grade in Fall 2025: \_\_\_\_\_


Department ↓↓↓	Total credits required to graduate. (22.0)	Grade 9 ↓↓↓	Grade 10 ↓↓↓	Grade 11 ↓↓↓	Grade 12 ↓↓↓
<b>English</b>	4.0 credits	Freshman English (1.0)	Survey of Literature (0.5) <b>AND</b> Oral & Written Communication (0.5)	Choose 1.0 credit.	Choose 1.0 credit.
<b>Math</b>	3.0 credits  <b>(University-bound students should consider taking Algebra 2)</b>	Algebra 1 (1.0)	Geometry (1.0)	Integrated Math 2 (1.0) OR Algebra 2 (1.0)	Recommend 1.0 credit. Next in sequence.  Pre-Calculus (1.0)  Integrated Math III (1.0)
<b>Science</b>	3.0 credits  <b>(University-bound students should consider taking Chemistry)</b>	Biology (1.0)	Physical Science (1.0)	Choose 1.0 credit. Recommend Chemistry (1.0)	Recommend 1.0 credit of upper- level science.
<b>Social Studies</b>	4.0 credits	World History (1.0)	U.S. History (1.0)	Choose 1.0 credit	Choose 1.0 credit
<b>*Beginning with the class of 2027, students will need 1.0 more of core credit.</b>					
<b>Physical Education</b>	1.5 credits	Phy. Ed. (0.5)	Phy. Ed. (0.5)	Phy. Ed. (0.5)	
<b>Health</b>	0.5 credits	Health Issues (0.5)			
<b>Financial Literacy</b>	0.5 credits		Personal Finance		
<b>Electives</b>	7.0 credits	Computer Applications 1 (0.5)			









Career Goals: \_\_\_\_\_ Post-Secondary Goals: \_\_\_\_\_

## The 16 Career Clusters

Career Clusters are broad occupational groupings based on a set of common *knowledge and skills* required for a specific career. Wisconsin has adopted the National 16 Career Clusters that also serve as a tool for organizing curriculum and instruction. Career Clusters provide opportunities for all students regardless of their career goals and interests.

Career Clusters are a tool for a seamless educational system that: blends rigorous academic/technical preparation provides career development offers options for students to experience all aspects of a business or industry facilitates/assists students and educators with ongoing transitions

	<p>Agriculture, Food &amp; Natural Resources</p>	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>
	<p>Architecture &amp; Construction</p>	<p>Careers in designing, planning, managing, building, and maintaining the built environment.</p>
	<p>Arts, A/V Technology &amp; Communications</p>	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism and entertainment services.</p>
	<p>Business Management &amp; Administration</p>	<p>Encompasses planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.</p>
	<p>Education &amp; Training</p>	<p>Planning, managing, and providing education and training services, and related learning support services.</p>
	<p>Finance</p>	<p>Services for financial and investment planning, banking, insurance, and business financial management.</p>
	<p>Government &amp; Public Administration</p>	<p>Executing governmental functions to include Governance, National Security, Foreign Service, Planning Revenue and Taxation, Regulation, and Management and Administration at the local, state, and federal levels.</p>
	<p>Health Science</p>	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>

	Hospitality & Tourism	Encompasses the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel-related services.
	Human Services	Preparing individuals for employment in career pathways that are related to families and human needs.
	Information Technology	Building linkages to IT Occupations Framework for entry-level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration.
	Law, Public Safety, Corrections & Security	Planning, managing, and providing legal, public safety, protective services, and homeland security.
	Manufacturing	Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support.
	Marketing	Planning, managing, and performing marketing activities to reach organizational objectives.
	Science, Technology, Engineering & Mathematics	Planning, managing, and providing scientific research and professional and technical services (e.g. physical science, social science, engineering) including laboratory and testing services and research and development services.
	Transportation, Distribution & Logistics	Planning, management, movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.



## **ENGLISH**

Students are required to earn 4.0 credits of English in order to meet graduation requirements. Freshmen will take 1.0 credit of Freshman English. Sophomores will take 0.5 credit of Survey of Literature and 0.5 of Oral and Written Communication. Juniors and seniors will take 1.0 credit each year from any of the 11-12 grade course options. Those who plan to take AP Literature & Composition (1 credit) in 12th grade must take College Literary Analysis (0.5 credit) and one other 0.5 credit course in 11th grade. Juniors and Seniors are allowed to select additional English courses as elective opportunities.

### **Freshman English – Two Trimester – .5 credit per trimester – Grade 9**

An overall study of reading, writing, speaking, listening, and thinking skills. Students will cover vocabulary, essay writing, short stories, drama, speech, poetry, and novels.

### **Survey of Literature – One Trimester- .5 credit – Grade 10**

As a survey course, this class will deal with a variety of genres and styles of literature. Texts studied throughout the year may include, but are not limited to: *Of Mice and Men*, *To Kill a Mockingbird*, *Whale Talk*, and *Tuesday's with Morrie*. Students will also be reading choice books independently along with the books read as a class. Students will complete numerous written assignments and other projects to show their understanding of the stories read. This course will continue to concentrate on the basics of English language: grammar, vocabulary, and the fundamentals of writing.

### **Oral and Written Communications – One Trimester – .5 credit – Grade 10**

In this course, students will participate in and study the means of effective oral and written communication. Students will review the proper uses of the English language in written and spoken form. Students will participate in speech, debate, and short dramatic readings. Writing and research will be incorporated throughout the Trimester as students analyze communication methods and write their own speeches and debates.

### **College Prep Literary Analysis - One Trimester - .5 credit - Grade 11 (Prerequisite: 80% or higher in 9th and 10th grade English)**

This course will prepare students for the literature analysis that is expected at the college level. It will also prepare students for the AP course available for them during their 12th grade year should they plan to take it. The main focus of this course will be on writing in-depth literary analysis, which is the basis for the majority of college English courses. The readings will focus on American literature and the different literary movements established in American literature. Students will analyze America's literature in a variety of styles and authors from colonization to present. Texts to be analyzed throughout the course may include, but are not limited to *The Awakening*, *The Great Gatsby*, and *The Scarlet Letter*.

### **English Composition I - One Trimester - .5 credit - Grades 11-12 (Prerequisite: Completion of 9th and 10th grade English courses with a grade of 80% or better in each course)**

This course is designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing, and revising are applied through a variety of activities. Students will analyze audience and purpose, use elements of research, and format documents using standard guidelines. Individuals will develop critical reading skills through analysis of various written documents. **This course offers juniors and seniors the option of earning three dual credits with Mid-State Technical College. These credits TYPICALLY transfer to other technical schools or universities. How they transfer depends on each specific institution. Please ask in counseling for more information. \*This course may include a textbook fee.**

### **American Literature - One Trimester - .5 credit - Grade 11-12**

In this American-Literature-based course, students will complete activities designed to enhance reading, writing, vocabulary, research, speaking, and listening skills through the reading of fiction, nonfiction, drama, and poetry from the canon of American Literature. The goals of the course are to strengthen a student's communication skills, reading comprehension, vocabulary, and writing skills. Students will produce papers, read literature, and participate in cooperative learning. Literature from pre-colonization to the Civil War Era will be studied throughout this course in a variety of genres, styles, and authors. This is a literature course, so reading outside of class time is to be expected.

### **Many Voices: Journeys in Multicultural Literature - One Trimester - .5 credit - Grades 11-12**

This course will focus on multicultural authors from various cultures and locations around the world. The students will read, analyze, and discuss novels, short stories, poetry, and nonfiction from various authors. Writing for a variety of purposes will also be an emphasis in this course. Film interpretations of the literature read may be incorporated into the course at times as well and compared to the original literature. Some of the novels that will be read will deal with sensitive/adult subject matter. Along with literature circle and reading workshop options, some of the books to be included in the course include, but are not limited to *The Color Purple* and *The House on Mango Street* along with others chosen from an established list of multicultural options. This is a literature course, so reading outside of class time is to be expected.

### **Modern Literature - One Trimester - .5 credit - Grade 11-12**

This unique course combines an individualized reading workshop with in-common reading and discussion based on a variety of modern literature genres, such as mystery and suspense, science fiction and dystopia, satire, and others based on student interest and time. Reading selections are made in a combination of different ways: some self-selected, some from choices offered by the instructor, and some assigned, as well as choosing from any modern text they would like to read on their own. This course provides students with academic and creative strategies for reading, writing, and viewing. Please note that this is a literature course, so reading outside of class time is expected.

### **Media Literacy: Thinking critically about Media – One Trimester- .5 credit – Grade 11-12**

This course is designed to help students focus on analyzing various media. Films, TV shows/clips, music, images, and advertising will all be studied throughout the course. Students will learn the concept of rhetoric and how to analyze media messages. Students will participate in an ongoing blogging project about their experiences with media. They will gain an understanding of how to filter the information they receive from the media and learn to think critically about what is being presented to them through the media. Film techniques will also be studied and then put to use in analyzing films. An ongoing trimester project requires students to put their knowledge of rhetoric and media together to produce social media campaigns promoting a topic/cause of their choice.

### **AP Literature & Composition - Two Trimesters - .5 credit per trimester - Grade 12 (Prerequisite: 80% or higher in College Prep Literary Analysis, or 80% or higher in English Comp., or instructor approval)**

An Advanced Placement English course in Literature and Composition will engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Students will be asked to consider a work's structure, style, and themes as well as smaller-scale elements such as the use of figurative language, imagery, symbolism, and tone. Students will be covering various genres, periods, and styles, while reading works from a wide variety of authors. Writing is an integral part of this AP course. Writing assignments will focus on the critical analysis of literature and preparing students for the essays and readings they will need to do on the AP Exam. **There is a \$92 fee for this course to cover the cost of the AP Exam to be taken in May. Students who score a 3 or above on the exam will have this fee reimbursed. Scoring a 3 or above on the AP test will allow students the opportunity to have college-level English credits awarded by colleges or universities they attend in the future. The \$92 fee will need to be paid by the end of the first quarter. All students registered for the class need to pay this fee and take the exam in May.**

### **Creative Writing - One Trimester - .5 credit - Grade 11-12**

This course is designed for students who enjoy writing as a form of art and personal expression. In this course, students will explore the elements of numerous literary genres (short stories, poetry, drama, children's stories, essays, etc.) and the power of both print and multimedia formats. To develop original writing pieces, students will engage in writing workshops, literary element development lessons, writing/author studies, and peer reviews/conferences. Students will be given ample opportunities for creative self-expression and the opportunity to share ideas. Finally, students will use the writing process to improve their writing skills at an upper-classmen level. This is an excellent course for students who love to write and create their own style and voice.

### **Speech - One Trimester - .5 credit - Grade 11-12 (Prerequisite: Completion of 9th and 10th grade English courses with a grade of 80% or better in each course)**

This three-credit course explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. **This course offers juniors and seniors the option of earning three dual credits with Mid-State Technical College. These credits TYPICALLY transfer to other technical schools or universities. How they transfer depends on each specific institution. Please ask in counseling for more information. \*This course may include a textbook fee.**

## **MATHEMATICS**

**Students are required to earn 3.0 credits of mathematics in order to meet graduation requirements. Please pay special attention to the indicated prerequisites as they set forth the course sequence. Although only 3.0 credits of mathematics are required in order to graduate, students considering college or university study are strongly advised to take 4 credits of upper-level mathematics. Students are also strongly advised to check admission requirements and recommendations for each specific technical college, university, or college campus and programs and plan accordingly.**

### **Algebra I – Two Trimesters - .5 credit per trimester**

The purpose of Algebra I is to lay a solid foundation necessary to be successful in future math courses in today's world. Topics to be studied include: properties of real numbers, solving and graphing linear equations and inequalities, analyzing functions and relations, solving systems of equations and inequalities, and working with various kinds of polynomials and nonlinear functions. This course will prepare the students for Geometry and helps meet the mathematics requirements for post-secondary schooling.

### **Geometry – Two Trimesters - .5 credit per trimester (Prerequisite: Algebra I)**

This course will help students discover, learn, and apply geometry. It will provide opportunities to review and use algebraic concepts while studying geometry. Topics to be studied include reasoning in geometry, parallels, quadrilaterals, triangles, circles, and trigonometry.

**Integrated Math II – Two Trimesters – .5 credit per trimester (Prerequisite: Geometry)**

This course will focus on strengthening various algebra, geometry, statistics, and probability skills in a more individualized manner. The course reviews some skills from Algebra I and Geometry as well as introduces several new topics including matrices, combinations, permutations, and quadratic systems of equations.

**Algebra II – Two Trimesters - .5 credit per trimester (Prerequisite: Geometry)**

This course will expand and review the skills learned in Geometry and Algebra I. Topics to be studied include: linear relations, graphs, matrices, systems, quadratic equations, functions, powers, roots, polynomials, conic sections, and trigonometry. Probability and statistics topics are interwoven throughout the course. This course will prepare the student for Pre-calculus and helps meet the mathematics requirements for post-secondary schooling.

**Integrated Math III – Two Trimesters – .5 credit per trimester (Prerequisite: Integrated Math II or Algebra II)**

This course will extend the content studied in Integrated Math II or Algebra II. The course will review algebraic and geometric concepts. This course will expand those into the exploration of linear, polynomial, rational, exponential, and radical functions, logarithms, trigonometry, statistics, and probability.

**Pre-calculus: Two Trimesters - .5 credit per trimester (Prerequisite: Algebra II or Integrated Math III)**

Pre-calculus is designed to prepare students for Calculus and higher college math courses. This course will review and expand on Algebra II concepts. Topics covered are: polynomial, exponential, logarithmic, trigonometric functions and their graphs, systems of equations, matrices and determinants, statistics, series, and probability.

**Calculus – Two Trimesters – .5 credit per trimester (Prerequisite: Pre-Calculus)**

This course will cover the basics of Calculus. Topics will include some from previous mathematics work, such as functions, continuity, trigonometry, and statistics. The majority of the topics will be devoted to limits, derivatives, along with the applications of derivatives, and an introduction to integrals, Graphing calculators will be utilized throughout the course.

**Introductory Statistics –Two Trimester - .5 credit per Trimester - Grades 11-12 (Prerequisite: Completion of math courses including either Algebra II or Integrated II with a 75% or better OR instructor approval)**

Students taking Introductory Statistics display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. Algebra knowledge and foundational skills in mathematics are important for success in this course. **This course offers juniors and seniors the option of earning three dual credits with Mid-State Technical College. These credits TYPICALLY transfer to other technical schools or universities. How they transfer depends on each specific institution. Please ask in counseling for more information. \*This course may include a textbook fee.**

**Intermediate Algebra with Applications – Two Trimester - .5 credit per Trimester - Grade 11-12 (Prerequisite: Completion of math courses including either Algebra II or Integrated II with a 75% or better OR instructor approval)**

This course offers algebra content with applications. Topics include properties of real numbers, order of operations, algebraic solution for linear equations and inequalities, operations with polynomial and rational expressions, operations with rational exponents and radicals, algebra of inverse, logarithmic and exponential functions. **This course offers juniors and seniors the option of earning four dual credits with Mid-State Technical College. These credits TYPICALLY transfer to other technical schools or universities. How they transfer depends on each specific institution. Please ask in counseling for more information. \*This course may include a textbook fee.**

**SCIENCE**

**Students are required to earn 3.0 credits of science, which incorporates instruction in the biological and physical sciences, in order to meet graduation requirements. Sophomores will take 1.0 credit of Physical Science. Freshmen will take 1.0 credit of Biology. Students are allowed to select from the various science courses offered in order to fulfill the remaining 1.0 credit requirement. Please pay attention to the prerequisites as they set forth the course sequences within the Science department. Students planning to pursue a technical college education, especially in the scientific or health-related programs, and students planning to attend college or university are strongly advised to take Chemistry for their 3<sup>rd</sup> science credit in addition to at least a 4<sup>th</sup> credit selected from upper-level science course offerings.**

**Biology I – Two Trimesters – .5 credit per trimester – Grade 9**

Biology is the study of plant and animal life. The main focuses are an introduction to ecology, cells, kingdoms, their development, levels of complexity, and interrelationships. This culminates in an introduction to the study of the biology of man. All areas of study are coordinated with laboratory investigations.

**Physical Science – Two Trimesters – .5 credit per trimester – Grade 10**

Physical Science is designed to develop a better understanding of the natural and physical world. The first trimester is an introduction to physics and deals with forces, motion, energy, waves, electricity, and magnets. The second trimester is an introduction to chemistry and covers matter, the periodic table, and chemical reactions. Emphasis is placed on mathematical applications.

### **Ecology – One Trimester - .5 Credit - Must have passed 1<sup>st</sup> Trimester Biology 1**

Students will obtain a detailed understanding of ecosystems and human interactions within ecosystems. Topics to be covered include: basic principles of ecology, population dynamics, and energy flow through the biosphere, ecology of communities, and the exploration of various biomes, and includes local taxonomy of WI flora & fauna.

### **Earth & Space Science –One Trimester - .5 Credit – Grades 11-12**

Earth & Space Science will introduce students to the applications of biology, chemistry & physics to the natural world. Topics will include waves, our solar system, stars & galaxies, meteorology, Earth's composition, plate tectonics, and how Earth's formations were created.

### **Forensic Science - One Trimester – .5 Credit - Grades 11 - 12**

Forensic science is the application of basic science principles and technological practices to the purposes of law enforcement. Students will learn terminology and investigative procedures related to crime scene investigation and processing. Using scientific methods, students will collect and analyze evidence through case studies, laboratory experiences, and simulated crime scenes. Topics include DNA analysis, fingerprint and handwriting analysis, hair and fiber analysis, ballistics, and blood typing and spatter analysis. Current events will also be explored.

### **Environmental Science– One Trimester course - .5 Credit**

This course will teach principles and concepts regarding the interrelationship of humans in the natural world. Students will learn and practice sustainable ecological methods and ethical decision-making skills regarding the human impact on our world.

### **Microbiology – One Trimester - .5 Credit (Prerequisite: Biology with a C average)**

This course looks at things such as why you, as well as other animals and plants, get sick. We'll explore many organisms usually too small to see without a microscope. Topics covered will include the history of microbiology and diseases, basic chemistry, laboratory procedures, types of microorganisms, germ anatomy and growth, ways to control microbes, genetics, how our bodies fight infections, and many diseases that confront us throughout our lives. Students taking this course have passed biology. Chemistry would be beneficial but is not required. This is an advanced-level, college prep-style course. Students must be prepared to dedicate appropriate study time.

### **Advanced Biology- 2 trimesters- .5 credits per trimester -Grades 11-12 or with teacher recommendation (Prerequisite: passed biology with a C average; passed chemistry with a C average or taking chemistry concurrently)**

Introduces general biological concepts and principles. Emphasis is on cell structure and function, genetics, evolution, and taxonomical relationships. Consideration is also given to diversity among the various kingdoms. **This course offers juniors and seniors the option of earning four dual credits with Mid-State Technical College. These credits TYPICALLY transfer to other technical schools or universities. How they transfer depends on each specific institution. Please ask in counseling for more information. \*This course may include a textbook fee.**

### **Chemistry – Two Trimesters – .5 credit per trimester (Prerequisite: Geometry with a C average)**

Science of matter and energy with an emphasis on matter. This course is based on modern theory and presents an introduction to fundamental terms and concepts of physical science: develops topics of atomic theory, the periodic table, chemical bonding, stoichiometry of chemical equations, and types of reactions. Emphasis on computational skills needed to calculate reactants and products of reactions, and problem-solving necessary for the application of concepts. Provides a strong foundation for AP chemistry

### **Anatomy and Physiology- 2 trimesters- .5 credits per trimester- Grades 11-12 or with teacher recommendation (Prerequisite: passed biology with a C average; passed chemistry with a C average or taking chemistry concurrently)**

Examines concepts of human anatomy and physiology as they relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to inform decision making and professional communication with colleagues and patients. **This course offers juniors and seniors the option of earning four dual credits with Mid-State Technical College. These credits TYPICALLY transfer to other technical schools or universities. How they transfer depends on each specific institution. Please ask in counseling for more information. \*This course may include a textbook fee.**

### **Advanced Chemistry – Two Trimesters – .5 credit per trimester (Prerequisite: Chemistry)**

This course builds on principles established in general chemistry. Theoretical quantitative and qualitative concepts will be reviewed. Laboratory work will be a large emphasis of the course; putting into application theoretical concepts. This is a critical course for those pursuing a science-related career at the technical college, college, or university level. Topics to be studied include acid-base chemistry, stoichiometry, thermochemistry, electrochemistry, chemical equilibrium, chemical kinetics, thermodynamics, and qualitative analysis. **There is a \$92 fee for this course to cover the cost of the AP Exam to be taken in May. Students who score a 3 or above on the exam will have this fee reimbursed. Scoring a 3 or above on the AP test will allow students the opportunity to have college-level Science credits awarded by colleges or universities they attend in the future.**

**Physics - Two Trimesters - .5 credit per trimester - Grades 11-12. Prereq: passed geometry with a C average**

This course is designed for advanced science and math students and will expand on the topics learned in physical science. Emphasis will be placed on the mathematical application of the concepts learned. Areas of study will include mechanics in one direction, mechanics in two dimensions, momentum and energy, waves and light, electricity and magnetism, and subatomic particles. Students must be willing to put in the time outside of school to study.

**PLTW: Principles of Biomedical Science (PBS) Pre-requisite: none**

Principles of Biomedical Science (PBS) is a full-year high school course in the PLTW Biomedical Science Program. This course serves to provide foundational knowledge and skills in fields such as biology, anatomy & physiology, genetics, microbiology, and epidemiology as well as engage students in how this content can be applied to real-world situations, cases, and problems. Through both individual and collaborative team activities, projects, and problems, students will tackle real-world challenges faced by biomedical professionals in the field. They will work with the same tools and equipment used in hospitals and labs as they engage in relevant hands-on work. Students will develop skills in technical documentation to represent and communicate experimental findings and solutions to problems. In addition, students will explore how connections to other disciplines such as computer science and engineering shape the future of medicine and practice collaboration techniques that will help them connect with professionals across any field.

**SOCIAL STUDIES**

**Students are required to earn 4.0 credits of social studies in order to meet graduation requirements. Freshmen will complete 1.0 credit of World History and sophomores will complete 1.0 credit of U.S. History. Students can select from the various social studies course offerings in order to fulfill the remaining 2.0 credit requirement. Students may also fulfill their Financial Literacy Requirement by completing Microeconomics or Political and Economic Theory.**

**Advanced Social Studies Courses - MUST HAVE THE INSTRUCTORS PRE-APPROVAL**

Advanced courses can be offered on an as-needed basis for students who wish to delve deeper and more rigorously into areas of Social Studies. As per the Advanced Placement College Board, students do not need to complete an Advance Placement course to take any of the Social Studies AP exams, although it is recommended. Advanced courses will be offered in one of three options: 1. as a classroom course (depending on student enrollment), 2. as an Independent Study approved by Administration, 3. as an Honors option to most of the courses offered Junior and Senior year. If a student has any questions or is interested in taking an advanced course, please see Mr. Miller.

**World History – Two Trimesters – .5 credit per trimester – Grade 9**

World History tells the stories of people, events, and institutions from the earliest civilizations to modern times. It touches upon people's beliefs, the ways they meet their economic needs, the social and political institutions they form, and the culture they transmit from one generation to another.

**U.S. History – Two Trimester – .5 credit per Trimester – Grade 10**

This course will cover the history of the United States from the first people in the Americas to the 1930s. The focus of the course will be the people, events, institutions, and the ideas that have formed America. This course will stress the important concepts that have shaped the history and image of the United States at home and throughout the world.

**World Geography – One Trimester – .5 credit – Grades 11-12**

Students will take an overall look at the world, its peoples, cultures, and major geographical features. Areas emphasized will include Africa, Asia, the Middle East, Eastern Europe, and South America.

**Civics – One Trimester – .5 credit – Grades 11-12**

This course will be an overall view of the American system of government. By studying the forms, purposes, and institutions of the government, students will gain a better understanding of government action. Students will learn how the government influences their everyday lives and how they can influence the government through a variety of means. Mock elections, mock trials, and debates will be a key portion of this course.

**Modern US History – One Trimester - .5 credit – Grades 11-12**

This course will be an expansion of the modern era of U.S. history that students were introduced to in the U.S. History course. This course will offer an expanded look at the issues, people, and events that helped shape modern America. Students will research a topic of their choice to help stimulate their interest in modern U.S. history.

**Psychology – One Trimester – .5 credit – Grades 11-12**

Psychology is the study of human behavior and mental processes. This course will give students a basic overview of psychology, its purposes, practices, theories, and major contributors. Concepts of everyday human interaction, basic reasoning, and research techniques will be stressed.



### **The Holocaust and Intolerance – One Trimester - .5 credit – Grades 11-12**

Students taking this course will examine the Holocaust in depth, studying a wide range of sources, including historic documents, literature, films, and survivor testimonies. Student-centered discussion, independent research, and group projects are emphasized to help individuals develop a personal understanding of the Holocaust's meaning for today's world. Other examples of genocide such as Armenia, Rwanda, and Sudan will also be discussed.

### **Microeconomics – One Trimester - .5 credit – Grades 11-12**

This course is an introduction to the basic concepts of economics. It will focus on the concepts of supply, demand, and the establishment of prices. Personal money management and making wise monetary decisions will also be examined. Junior Achievement and *Common Sense Economics* (James D. Gwartney, Richard L. Stroup, Dwight R. Lee, Tawni Hunt Ferrarini) will play key roles within this course.

### **Political and Economic Theory – One Trimester – .5 credit – Grades 11-12**

The study of the development of various political and economic theories through history will be emphasized. Students will cover an in-depth study of such philosophers as Plato, Aristotle, Machiavelli, Marx, and Smith. College-level reading and expectations will prepare students for post-secondary education.

### **Introduction to Sociology - One Trimester - .5 credit - Grades 11-12 (Prerequisite: Completion of 9th and 10th grade Social Studies with a grade of 80% or better in each course OR Instructor Approval)**

Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. **This course offers juniors and seniors the option of earning three dual credits with Mid-State Technical College. These credits TYPICALLY transfer to other technical schools or universities. How they transfer depends on each specific institution. Please ask in counseling for more information. \*This course may include a textbook fee.**

### **Introduction to Diversity Studies-one Trimester-.5 credits-Grades 11-12 (Prerequisite: Completion of 9th and 10th grade Social Studies with a grade of 80% or better in each course OR Instructor Approval)**

Introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. **This course offers juniors and seniors the option of earning three dual credits with Mid-State Technical College. These credits TYPICALLY transfer to other technical schools or universities. How they transfer depends on each specific institution. Please ask in counseling for more information. \*This course may include a textbook fee.**

## **PHYSICAL EDUCATION and HEALTH**

**Students are required to earn 1.5 credits of physical education and 0.5 credit of health in order to meet graduation requirements.**

### **General Physical Education – One Trimester - .5 credit – Grades 9-12**

This is the introductory Physical Education class with the goal in mind to promote active participation and enjoyment of movement. Students will be exposed to a wide range of activities and concepts that will set them up to lead an active, healthy lifestyle. Activities in physical education will be: (Large/small games) football, basketball, volleyball, softball, weight training, fitness, floor hockey, badminton, and tennis. There will be a weekly emphasis on an aerobic workout.

### **Strength/Conditioning or Athletic Development Class - One Trimester- .5 credit – Grades 9<sup>th</sup>-12<sup>th</sup>**

This course is designed to allow students to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Principles of fitness will also be studied throughout the course including flexibility, cardiovascular endurance, muscle strength, muscle endurance, and body composition. Self-motivated students should consider this class.

### **Sports Challenge – One Trimester .5 credit - Grade - 10<sup>th</sup>-12<sup>th</sup> (Prerequisite: General PE or Strength/Conditioning or instructor approval)**

Sports Challenge includes advanced skill development in a variety of activities. A number of highly competitive games and contests will take place. Game strategies and skills will be explored and demonstrated. Activities include tennis, lacrosse, flag football, softball, soccer, basketball, volleyball, floor hockey, badminton, dodgeball, table tennis, pickleball, and miscellaneous team games. **There will be a high emphasis on competition and effort**

### **Lifetime Activities and Wellness – One Trimester - .5 credit – Grades - 10<sup>th</sup>-12<sup>th</sup>**

Students will develop an understanding of the skills and strategies involved in a choice of individual and lifetime activities. The goal is to help students live a physically active lifestyle. A variety of lifetime sports are offered within the curriculum to enhance the student's self-concept and personal well-being. Activities for include tennis, archery, golf, pickleball, badminton, bowling, broomball, snowshoe, yard games, and softball. Varies lifetime fitness activities also will be included such as walking, biking, weight lifting, Wellness will be the main focus with time being spent completing workouts ranging from basic weight training, body weight movements, yoga, CrossFit, or various other workouts geared to help students meet goals.

### **Health Issues for Young Adults - One Trimester – .5 credit – 9<sup>th</sup> grade required**

Throughout this Trimester there will be a myriad of topics concerning physical, mental, emotional, social, and environmental health. We will specifically discuss strategies for stress relief, mental wellness, mental illness, substance abuse, sexuality, suicide prevention, and several other topics. Students will have some input in other curriculum selections. The overall goal of this course is for students to make independent, informed decisions concerning his or her health in the future based on the information that is presented to them.

## **ART**

**Students are encouraged to experience art courses as part of their elective coursework. Please pay close attention to the prerequisites as they set forth the course sequences within the Art department. 2-D Foundations and 3-D Foundations, as their names indicate, are foundational courses within the Art department. This beginning level 2-D course must be taken before intermediate or advanced level 2-D courses and the same is true within the 3-D course sequence.**

### **2D Foundations 1 - One Trimester - .5 credit**

This beginning level high school course focuses on understanding and applying the elements and principles of design through a variety of two-dimensional experiences including drawing, painting, and collage. Students cover many subjects and themes as they practice and explore mediums such as pencil, pen, pastel, and acrylic painting. Time will be spent perfecting basic drawing skills and understanding how to apply them to their artwork. Students will experience and begin to analyze and respond to a wide variety of artwork.

### **2D Foundations 2 - One Trimester – .5 credit (Prerequisite: 2-D Foundations, B or better in Drawing & Painting or Photography and instructor approval)**

This advanced-level course will allow those students with ability, motivation, and drive the opportunity to intensively study a given 2-D medium, (drawing, painting, or photography), on a semi-independent basis. Together the student and instructor will determine a course of study based on the student's skills and goals. Students must be able to manage their time productively, carry research and projects through independently and meet deadlines. Students will be encouraged to develop their own style, explore career opportunities and develop a digital portfolio of their work. There may be a course fee assessed based on the actual cost associated with the project choice.

### **3D Foundations 1 - One Trimester - .5 credit**

This beginning level high school course will focus on understanding and applying the elements and principles of design through a variety of three-dimensional design and sculpture experiences. Students cover many subjects and themes as they practice and explore mediums such as paper, paper mache, plastic, wood, and glass mosaic. Time will be spent learning to critique their art as well as studying the art of other artists and cultures throughout history. They will experience and begin to analyze and respond to a wide variety of artwork.

### **3D Foundations 2 One Trimester - .5 credit (Prerequisite: 3-D Foundations)**

In this intermediate-level course, students will apply their knowledge of the elements and principles of design through open-ended projects while learning technical skills in ceramics and stained glass. In ceramics, students will explore high-level hand-building then learn and practice the basics of wheel-thrown pottery. They will create decorative sculpture and functional ware. Time will be spent studying and critiquing the ceramic art style. There may be a course fee assessed based on the actual cost associated with the project choice.

### **3D Foundation 3 - One Trimester - .5 credit (Prerequisite: 3-D Foundations and a B or better in 3-D Foundations 2 and instructor approval)**

This advanced-level course will allow those students with ability, motivation, and drive the opportunity to intensively study a given 3-D medium in which they have a considerable previous guided experience, on a semi-independent basis. Together the student and instructor will determine a course of study based on the student's skills and goals. Students must be able to manage their time productively, carry research and projects through independently and meet deadlines. Students will be encouraged to explore and develop their own ideas and techniques and put together a digital portfolio of their work. There may be a course fee assessed based on the actual cost associated with the project choice.

### **Drawing & Painting - One Trimester - .5 credit**

In this intermediate-level course, students will apply and synthesize the elements and principles of design through challenging projects in various 2-D mediums. Emphasis will be placed on individualized instruction, continued skill development, visual communication of ideas, and higher-level analysis and critique of artwork. Mediums will include drawing, painting, and printmaking.

### **Intro to Photography & Digital Design - One Trimester - .5 credit**

This intermediate-level course is an introduction to the art of photography and digital design. Students will learn the history of photography, use and care of a complicated digital camera, correction and manipulation of digital images via computer, and basic (computer-based) graphic design. Emphasis will be placed on understanding how to use and apply the elements and principles of design to create quality, meaningful work. This rigorous course requires a certain amount of text and written work. It is suitable for responsible students who can manage their time productively, take ownership for learning technical procedures, and can responsibly use expensive equipment. The course is treated very independently and students must have time management skills. There may be a course fee assessed based on the actual cost associated with the project choice.

### **Intro to Photography & Digital Design 2 - One Trimester - .5 credit (Prerequisite: Intro to Photography & Digital Design, B or better) (offered in the spring ONLY)**

This advanced level course is the next level to the art of photography and digital design. Students will dive deeper into the purpose of photography, the advanced use of DSLR cameras and the use of manipulation in the digital editing software. Emphasis will be placed on understanding the elements and principles of design to create purposeful artwork in digital form. This rigorous course will require a certain amount of text and written work, as well as application of the DSLR cameras in real life situations. Students will explore studio displays, lighting and advance into different DSLR cameras and lenses. It is suitable for students who want to apply digital design into real world scenarios, can responsibly use expensive cameras equipment, and have time management skills. Knowledge and assignments will sometimes be applied outside of school hours during school events. There may be a course fee assessed based on the actual cost associated with the project choice.

## **BUSINESS & INFORMATION TECHNOLOGY EDUCATION (B&IT)**

**Students are encouraged to experience business education courses, especially Going to Work, as part of their elective coursework. Freshmen or Sophomores will take Computer Applications 1.**

### **Computer Applications I - One Trimester - .5 credit - Grade 9 & 10**

The emphasis of this course is on the concepts of computing and problem solving through hands-on computer applications most frequently used in business and at home. Students will become proficient in word processing, spreadsheet applications, and using electronic presentation software. Composition and data entry skills will be developed with an emphasis on punctuation, spelling, and proofreading. Microsoft: Word, Excel, Power Point,

### **Accounting I – One Trimester .5 credit Grades 10-12 (Prerequisite: Computer Applications I or Instructor Consent)**

Students will explore careers in accounting, and learn the basic accounting practices for financial record keeping of a business. They will learn and practice the elements of the accounting cycle, and payroll system for a small business. Students will also learn how to maintain and reconcile a personal checking account. Computer software will be used throughout the course as an accounting tool.

### **Going to Work - One Trimester - .5 credit Grades 9 - 12 or Instructor Approval (Prerequisite: Computer Applications I or Instructor Consent)**

This course intends to prepare the student to enter the world of work. At the conclusion of this course, the student will have completed job applications, employee screening tests, a resume, and job interviews. Students will also practice thinking like an entrepreneur and even be part of a “shark tank” episode.

### **Microsoft® Office Introduction– One Trimester .5 credit – Grades 10 - 12 (Prerequisite: Computer Applications I and instructor approval)**

Students will prepare for Microsoft® Certified Application Specialist (MCAS) Credential in order to successfully complete the MCAS exam. This tool assesses student’s computer skills in terms of the objectives of the Microsoft® Certified Application Specialist certification exam through hands-on exercises. Upon completion of the preparation, students will then complete the MCAS exam(s) to obtain the credential. MSTC will accept the MCAS Credential in lieu of their Microsoft® Office Introduction class within one year of the attainment of the credential. The credential will be considered advanced standing for the class, Microsoft® Certified Application Specialist (MCAS) Series: The Microsoft® Certified Application Specialist (MCAS) credential, part of the Microsoft® Business Certification program, Excel 2019, PowerPoint 2019 Access 2019, and Outlook 2019 as well as the Windows 11 operating system. Candidates must pass a certification exam in order to earn the MCAS credential. **This course offers juniors and seniors the option of earning three dual credits with Mid-State Technical College. These credits TYPICALLY transfer to other technical schools or universities. How they transfer depends on each specific institution. Please ask in counseling for more information. \*This course may include a textbook fee.**

### **Personal Finance – One Trimester .5 credit Grades 10**

This course will introduce the student to practical skills in personal finance. And will cover the areas of saving, checking, budgeting, debt management, choices after high school, consumer awareness, comparison shopping, investing and retirement, insurance, payroll, money and relationships, and careers and taxes. Assignments will assist students in learning the realistic aspects of adult concerns such as bills, mortgages, and taxes before they are faced with them in real life. **This course fulfills the .5 Financial Literacy requirement for graduation.**



**Publications – One Trimester .5 credit (Prerequisite: Instructor Approval/Attendance, late assignments from other classes will be considered.)** (Limited number of students)

This class will produce the school yearbook. Students will be responsible for page layouts, graphics, photography, selling advertising, and meeting all required deadlines. Students will use scanners, digital cameras, and various resources supplied by the yearbook printing company. Adobe Photoshop and other web-based applications will be used to develop the yearbook. Students will be required to complete photo assignments outside of their regular school schedule.

**Sports & Entertainment Marketing –One Trimester .5 credit – Grades 9 - 12 This class will be offered during school years beginning in an odd-numbered calendar year.**

Sports and Entertainment Management is a specialized course for students with a career interest in the fields of sports, recreation, and entertainment. Students will use the general principles of management to make informed decisions through the effective use of people and other resources. This course is designed to provide knowledge in operations, human resources, marketing, and the use of information technology in the industry. Major areas that will be covered are professional sports, theme parks, TV and movie industries, concert and arena productions, and theme restaurants. Students will also obtain an understanding of the career options available within the fields of sports and entertainment.

**School to Work Experience – One Trimester - .5 Credits – Grades 11-12 (Pre-requisite: Computer Applications I and Going to Work (have taken or currently enrolled)**

The purpose of the school to work experience is to prepare students for future full-time employment; promote cooperation between business, community, and schools; appraise individual aptitudes, abilities, and interests; explore occupational requirements, number of jobs available, hours and salaries; provide a hands-on experience not available in a school setting, and integrate classroom theory with practical experience. Students interested in the School to Work Experience must be employed for compensation or on a volunteer basis. Students are required to work a minimum of 60 hours per trimester which would replace time normally spent in the classroom for one period for one Trimester. The student must adhere to the guidelines as set forth in the district's Work-Based Learning Handbook. Prior to the start of the Trimester, students will meet with the employer and the school to work coordinator to coordinate expectations, assessments, hours of employment. Students must provide a valid Wisconsin Driver's License, proof of automobile insurance, and a transportation liability waiver. Students will also sign an employment contract which outlines the responsibilities of the student, employer, parent/guardian, school to work coordinator, and school. Violations of said contract may result in the termination of this class. Students enrolled in this class will automatically be enrolled in the Wisconsin Skills Certificate program.

**Intro to Business- One Trimester – .5 credit Grades 10-12 (Prerequisite: Computer Applications I) (This class will be offered during school years beginning in an even-numbered calendar year.**

An introduction to what a business is, how it operates, and how it is managed. Students identify forms of ownership and the processes used in production and marketing, finance, personnel, and management in business operations. **This course may offer Sophomores, Juniors, and Seniors the option of dual credit with Mid-State Technical College. \*This course may include a textbook fee.**

**Quality Customer Service– One Trimester .5 credit Grades 10-12**

Addresses sensitivity in communicating with customers and co-workers. Includes international communications, teamwork, working relationships, and telephone skills. **This course may offer Sophomores, Juniors, and Seniors the option of dual credit with Mid-State Technical College. \*This course may include a textbook fee.**

**FAMILY & CONSUMER SCIENCES (FACS)**

**Students are encouraged to experience family and consumer education courses as part of their elective coursework. Please pay attention to prerequisites as they set forth sequence patterns for the department.**

**Introduction to Culinary Arts - One Trimester - .5 credit**

In this course, students will explore the basic principles of cooking and foodservice. Students will learn safety, sanitation, recipe quantification skills, basic cooking principles, and entry-level career opportunities. Students will learn the importance of certain foods used in cooking and prepare various dishes. Students may also have the opportunity to prepare food items for school events.

**Culinary Arts II - One Trimester - .5 credit (Prerequisite: Introduction to Culinary Arts)**

In this course, students will delve deeper into foodservice principles as well as learn more precise cooking and preparation methods. This course will utilize aspects of the Prostart curriculum. Students will gain knowledge in specific cooking styles, knife skills, and nutrition. Students will have the opportunity to plan and prepare foods for special school events.

**Nutrition for Healthy Living - One Trimester-.5 Credit (Prerequisite: Introduction to Culinary Arts) Grades 10-12**

Students will learn concepts of healthy eating to facilitate the journey of good health across the lifespan. Students will learn how to make individual decisions and behavior changes in healthy eating by learning how to evaluate all the nutritional information available to them. Students will investigate nutritional myth versus fact and explore how policy and environment impact nutritional choices. Students will also have the opportunity to prepare nutritious meals. **Students in grades 10-12 will have the option to earn 3 credits from Mid-State Technical College. \*This course may include a textbook fee.**

### **Fundamentals of Textiles and Interiors – One Trimester - .5 credit**

This class will introduce students to the elements and principles of design and how they apply to home decorating, architectural styles, period furniture, wall arrangements, and accessories. They will learn to arrange furniture, design simple floor plans, and select furnishings, materials, and lighting for efficiency and aesthetics. Students will be introduced to careers in this field. Students will also complete a project to be used in the home setting. There may be a fee assessed based on the project chosen.

### **Advanced Textiles and Interiors – One Trimester - .5 credit (Prerequisite: Fundamentals of Textiles and Interiors)**

This class will build on the basics learned in Fundamentals of Textiles and Interiors. This course addresses selecting and planning living environments to meet the needs and wants of individuals and families throughout the family life cycle, considering a broad range of economic, social, cultural, technological, environmental, maintenance, and aesthetic factors. Students will complete a project to be used in the home setting. Career opportunities in interior design are emphasized. There may be a course fee assessed based on the actual cost associated with the project choice.

### **Parent/Child - One Trimester – .5 credit – (Not available to 9<sup>th</sup> grade)**

Even if one is not a parent or is not planning to be one for some time, this class will help you to become a more perceptive and caring individual in your relationship with others. Major areas of study include issues and concerns facing parents today, the parenting "role," the parenthood decision, and child development topics.

### **Working with Children - One Trimester – .5 credit (Prerequisite: Parent/Child).**

This course examines the knowledge and skills necessary for teaching/working with young children with an emphasis on carrying those skills over into the world of work and the child care industry. Major areas of study include career opportunities in the areas of caregiving and children; guiding and teaching young children in a mini-preschool lab experience, and issues related to operating/working in a child care center.

### **Leadership, Life Skills, and Relationships - One Trimester – .5 credit**

In this course, the student will learn skills necessary to become a strong leader as well as skills essential for building strong, healthy relationships with peers, family, and others. Students will also focus on the skills necessary for living on one's own including being a smart and informed consumer and how to manage our personal finances. **This course fulfills the .5 Financial Literacy requirement for graduation.**

### **Mental Wellness and Stress Management – One Trimester - .5 credit Grades 10-12**

Investigate the foundations of mental health and wellness! We will explore the risks of stress and emotional management techniques to be able to mitigate those risks by using a growth mindset. Students will be engaged in processes to support the emotional dimension of health and demonstrate ways to implement these practices for themselves and others along their wellness journey. **Students in grades 10-12 will have the option to earn 3 credits from Mid-State Technical College. \*This course may include a textbook fee.**

## **SPANISH**

**Students planning to attend college or university are strongly advised to take at least 2.0 credits of a single foreign language as part of their elective coursework. Currently, UW-Madison requires at least 2.0 credits of a single foreign language as an admission standard.**

### **Spanish 1 – Two Trimesters - .5 credit per Trimester**

In the level one class, students will be exposed to the Spanish language through an abundance of input, both verbal and written. Students will build their comprehension and use strategies to understand new material. A strong emphasis on using Spanish for communication leads us to focus on high-frequency words and structures. Students should expect to participate and gradually increase the amount of Spanish that they can speak & write to communicate. The class will read two beginner novels, as well as use stories and culture. Students will build an appreciation for the Hispanic culture and make connections between their lives and the language and culture that we study.

### **Spanish 2 – Two Trimesters - .5 credit per Trimester – (Prerequisite: C or better in Spanish 1)**

Students will continue to build their communication skills using Spanish. They will continue to focus on high-frequency language, including the past tense. Students will read two novels, many stories, song lyrics, and other resources. Students will write regularly and be expected to speak Spanish the majority of the time. Additional cultural topics will be explored.

### **Spanish 3 – Two Trimesters - .5 credit per Trimester - (Prerequisite: C or better in Spanish 2)**

Students will continue to build on their Spanish skills in listening, reading, writing, and speaking. Students who take this course should be motivated to learn about Hispanic cultures and put their Spanish to use daily. Students will write regularly and be expected to speak Spanish the majority of the time. Students will communicate using the present, past, and future tenses. Students will participate in independent reading time in Spanish weekly.

### **Spanish 4 – Two Trimesters - .5 credit per Trimester (Prerequisite: C or better in Spanish 3)**

Students will use Spanish for daily communication with teacher and peers in class. A wide variety of reading material, types of writing, conversing, and using Spanish for recreation will help students strengthen and stretch their Spanish skills. Examples of material we read will include novels, news articles, television and music media, and more. Students will participate in independent reading time and do journal writing in Spanish weekly. A Spanish language television series will also provide a basis for discussing culture and elements of story.

### **Spanish 5 – Two Trimesters - .5 credit per Trimester (Prerequisite: C or better in Spanish 4)**

A continuation of upper-level Spanish use and study. Students will use Spanish for daily communication with teacher and peers in class. A wide variety of reading material, types of writing, conversing, and using Spanish for recreation will help students strengthen and stretch their Spanish skills. Examples of material we read will include novels, news articles, television and music media, and more. Students will participate in independent reading time and do journal writing in Spanish weekly. A Spanish language television series will also provide a basis for discussing culture and elements of a story.

## **ALTERNATIVE EDUCATION COURSES**

### **English Employability Skills 2 - Trimester English Elective Course - .5 credit per Trimester - Grades 11-12 (Prerequisite: Alternative Educator and Administrative approval)**

This course will address the Common Core English standards, focusing on verbal, technical writing skills, and written communication skills. There will be an emphasis on educating participants about the necessity of soft skill development for maintaining success in the workplace. It will incorporate opportunities for personal growth as well as technology to aid in the development of employable skills. Students may be required to go to various worksites to apply concepts, complete interviews, and shadow.

## **SPECIAL EDUCATION COURSES**

### **English Work Preparation-Trimester Course-.5 credit per Trimester-Grade 11 or 12 (Prerequisite: Case Manager approval)**

English Work Preparation is a course that will address the Common Core English standards, with a specific focus on verbal and written communication skills, interpersonal relationships, soft skills, and other work-world skills. Students MAY be required to go to various worksites to apply concepts, complete interviews, and shadow.

### **Human Relations and Life Skills Trimester Course- .5 credit per Trimester-Grade 11 or 12 (Prerequisite: Case Manager approval)**

This course will provide students with an opportunity to examine human relations and practice life skills not only at school, but also within the workplace, home, and personal relationships. This will ultimately help students to be more successful in the work world and various other areas in the future. Possible discussion topics are character, leadership, team-building, communication, workplace conflict, decision making, anger management, personal commitments and problem solving.

### **Work Experience-Trimester Course- .5 credit per Trimester- Grade 11 or 12 (Prerequisite: Case Manager approval)**

This course is to continue to develop soft skills, work ethics, and a general understanding of the working world. Students must independently secure a job within the community. Progress monitoring and evaluation developed by JEHS staff will occur throughout the Trimester, taking into account input from the employer. Work hours will be documented by the student and employer. 65 Hours are equivalent to .5 credits. Students may be allowed to leave for one class period each day in order to complete hours, as long as approval is given by the teacher, counseling, and administration. In special cases, instead of independently securing employment, this course may also include an approved work-study in conjunction with the Wood County Division of Vocational Rehabilitation and Workforce Development.

## **MUSIC DEPARTMENT**

**Students are encouraged to experience music as part of their elective coursework.**

### **Concert Band – Concert Band –Course runs all year - 0.5 credits per Trimester**

Concert band is a performance-based class and is open to any high school student. Having previously played a band instrument is highly recommended. Lessons can be provided the trimester before joining if new to playing an instrument. Performance opportunities include: concerts, parades, pep rallies, athletic events, competitions, clinics, and other special events. A love for playing and a strong work ethic is a must! (Students are expected to provide their own all-black attire for performances.)

### **Echoes – Minimum of One Trimester - .5 credit per Trimester – Grades 7 -12 (Prerequisite: None)**

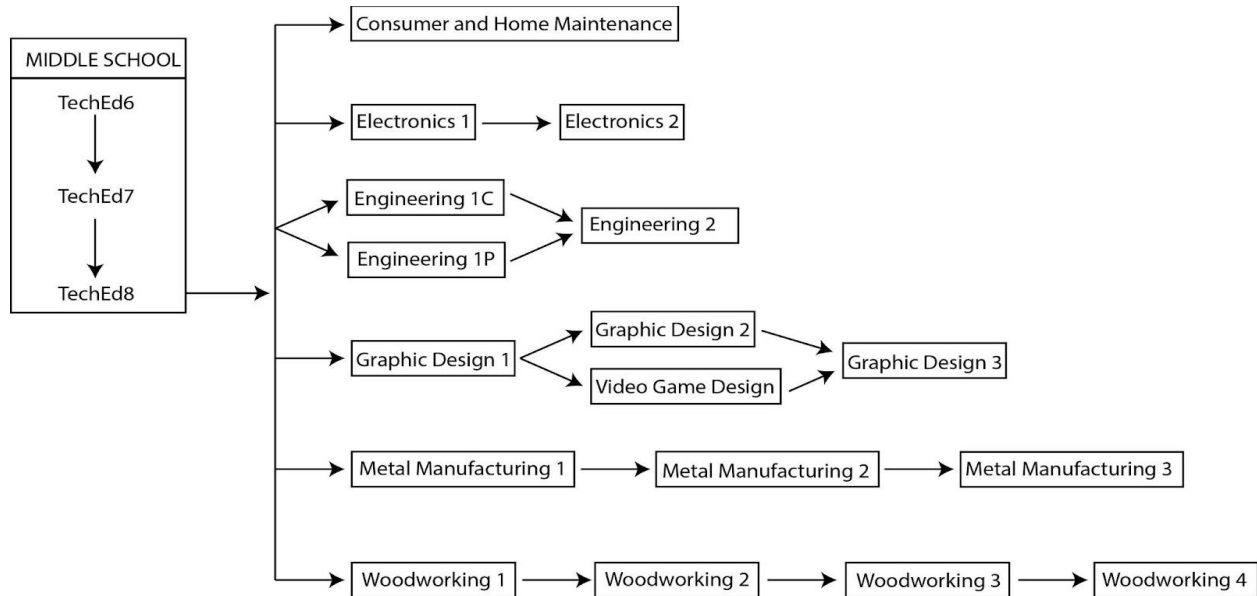
Participation in Echoes is required to gain experience before joining Voices. Designed for the emerging singer, students will learn critical rehearsal expectations, pronunciation techniques and vocal production skills. Singers will participate in this choir for a minimum of one trimester before enrolling in Voices. (Students are expected to provide their own all-black attire for performances.)

### **Voices –Course runs all year - 0.5 credits per Trimester**

**(Prerequisite: Minimum of one (1) trimester in Echoes and Instructor Approval. This prerequisite is waived for students with two (2) or more trimesters in Voices. Instructor Approval required for all other registrations.)**

Voices is an advanced choir for all students who meet the prerequisite. Singers should expect to perform frequently throughout the year: competitions, clinics, athletic events and community events will be highlighted. Solo-voice development will also be encouraged. (Students are expected to provide their own all-black attire for performances.)

## **TECHNOLOGY AND ENGINEERING EDUCATION (TE)**



Students are encouraged to experience Technology Education courses as a part of their elective coursework. Students that enroll in these courses can expect to receive an education that will provide:

- A “Hands-On and Minds-On” learning experience
- A Skills-Based approach
- “Real World” scenarios to enrich core academics
- Courses that can lead to careers that are highly skilled, earn high wages, are in high demand, and are highly rewarding.

### **CONSTRUCTION COURSES**

#### **Consumer and Home Maintenance – One Trimester - .5 Credit**

**Prerequisites:** Sophomore or higher, Students are recommended to be at least a Junior (11<sup>th</sup> grade) for this course.

#### **Additional Credits / Certifications:**

- This course may be articulated for credit through Mid-State Technical College.

**Class Note:** This class may require students to leave school to further their knowledge on the concepts in this class.

**Coursework:** Within the course, students will learn about finances, construction, and other real-life skills that will prepare them for the “real-world”. Financial items that are covered in this course can include budgeting for expenses after high school, writing checks, multiple types of insurances, calculating repair costs, and other necessary real-life financial items. To prepare students for life after high school, this course also covers leasing properties, rental agreements, security deposits, costs of renting, basic maintenance of the rental, and other similar items. Students will learn about basic residential construction items within this course through presentations and then will build a project to solidify the knowledge gained. Covered in the course for owning a home will be maintenance schedules for the house, basic repairs, landscaping, costs for owning a home, plumbing, residential wiring, and other similar items. Other items that might be covered, based on time restrictions, can include taking an online OSHA-recognized training or basic automotive skills that a general consumer can use.

### **DRAFTING AND ENGINEERING COURSES**

#### **Engineering 1P: Introduction to Product Engineering – One Trimester - .5 Credit**

**Prerequisite:** None

#### **Additional Credit / Certifications:**

- Students who do extremely well in this course may be eligible to gain an industry-recognized certification in SolidWorks. **There would be a cost for the certification exam.**

**Coursework:** Students will learn the fundamentals of product engineering in this class and will learn how to properly and accurately draft 2D and 3D objects. Measurement, working with fractions and decimals, and learning about different forms of drafting geometry are major points in this class. Students will gain an understanding and experience in using the 2d drafting software, AutoCAD, and the 3D drafting software, SolidWorks. Along with drafting software, students may have time to use a 3D printer for creating a few prototypes and finished models.

### **Engineering 1C: Introduction to Civil Engineering – One Trimester - .5 Credit**

**Prerequisite:** None

**Coursework:** Students will learn the fundamentals of civil engineering in this class through presentations, assignments, and activities. Students will learn how to properly draft objects using the 2D drafting software, AutoCAD, and the 3D drafting software, Revit. Measurement, working with fractions and decimals, and learning about different forms of drafting geometry are major points in this class. Students will learn about the basics in house / building design, mapping using GIS (Global Information Systems) software, and about key terminology used in the civil engineering field.

**Engineering 2: Investigating Engineering – One Trimester - .5 Credit (Prerequisite:** An 80% or better in Engineering 1C or Engineering 1P AND an 80% or better in Woodworking 1 OR the permission of the instructor.)

**Class Note:** This is a fast-paced class that should only be taken if a student is highly interested in engineering as a career, is highly motivated, and is consistently on-task.

**Coursework:** Students who take this class are interested in the field of engineering. They will develop and complete a project (or multiple projects), in either a Civil Engineering or Production Engineering Area. Students will use everything that they learned from Engineering 1 to create the finished project.

- **Civil Engineering** – Students will choose to create something related to structures, buildings, or GIS systems. They will be responsible for including necessary items, such as egresses, in their designs. They will be responsible for researching proper methods.
- **Production Engineering** -- Students will gain an in-depth knowledge of creating a product using automated technologies. With this, they may learn how an assembly line works, along with how to set up jigs, fixtures, and other helping devices. Students would then analyze their assembly line and will troubleshoot on how to make it more efficient in both time and material. Students may face other challenges, such as hardware-less joints, CNC Programming, and the execution of a plan into a final product. Students who do extremely well in this course may be eligible to gain an industry-recognized certification in SolidWorks. There would be a cost for the certification exam.

### **ELECTRONICS TECHNOLOGY COURSES**

**Electronics 1 – One Trimester - .5 Credit (Prerequisite:** None)

**Class Note:** Algebra Strongly Recommended

**Coursework:** This course is an introduction to the field of small electronics as well as a basic introduction to electrical engineering. Students will learn through labs and theory; electron flow theory, conventional theory, and Ohm's Law / Kirchhoff's Law for series, parallel, and combination circuits. Students will also learn about debugging bad circuits. This is a college-equivalent class, that although not transcribed, will prepare students for a basic Introduction to Electronics at the college level. Experience in basic algebra is strongly encouraged.

**Electronics 2 – One Trimester - .5 Credit (Prerequisite:** An "80%" or better in Electronics 1 OR the permission of the instructor)

**Class Note:** Algebra Strongly Recommended

**Coursework:** In this course, students will look deeper into small electronics, especially semiconductors and digital electronics. Students will learn how to program microcontrollers and robots, along with how to control inputs and outputs in a circuit. Students should be highly motivated and experience in basic algebra is strongly encouraged.

### **GRAPHIC DESIGN COURSES**

**Graphic Design 1 – One Trimester - .5 Credit**

**Prerequisite:** none

**Class Note:** Students will be required to supply their own t-shirts for this class. There may be an additional cost for materials, based on what students are interested in doing for their sublimation project(s).

**Coursework:** In this course, students will learn about basic image modification, general printing layouts, and screen-printing of images on textiles. Graphic design is the second largest industry today and it is ever-growing. The skills that students will receive, will help them to gain experience, to lead into the field of graphic design. Students will use programs in such as, Adobe Photoshop, Adobe Illustrator, Adobe Lightroom, and Adobe InDesign, to create quality graphic works.

**Graphic Design 2 – One Trimester - .5 Credit (Prerequisite:** A "75 %" or higher in Graphics 1 OR the permission of the instructor)

**Class Note:** Students may be required to supply their own t-shirts for this class. There may be an additional cost for materials, based on what students are interested in doing for their sublimation project(s).

**Coursework:** In this course, students will learn more in depth about image modification, printing layouts, and screen-printing of images on textiles. Students will also begin to learn about 3D Graphic Design, using the advanced program called Blender®. They will learn about the creation, modification, and animation of entities in this advanced program. Students may also be involved in self-guided research and projects to help them better understand the printing and designing industries.

**Graphic Design 3: Independent Studies – One Trimester - .5 Credit**

**Prerequisites:** An "80 %" or better in Graphics 2 or Video Game Design AND the permission of the instructor. Students are recommended to be at least a Junior (11<sup>th</sup> grade) for this course.

**Class Note:** Students will be required to supply their own materials for this class or there may be an additional cost for materials, based on what students are interested in doing for their project(s).

**Coursework:** Students will participate in a completely self-guided learning of 1 or more aspects of graphic design. Students will be required to come up with a weekly plan of what they will learn and then they will be evaluated based upon this plan and the designed items that they produce. Students must be self-motivated and complete an acceptable amount of work to achieve success in this course.

**Video Game Design – One Trimester - .5 Credit (Prerequisites: A "70 %" or better in Graphics 1 OR the permission of the instructor)**

**Coursework:** In this course, students will learn a brief history of video game design and about the future for this growing industry. Through many labs, game testing, self-reflection, and group evaluation; students will gain an understanding of the complex world of game design. To wrap up the semester, students will create a game of their own from the knowledge they have gathered throughout the semester. Students should be fully aware that this is a video game DESIGN course, not a GAMING course. This course is challenging and involves a fair amount of programming.

### **METALWORKING AND MACHINING COURSES**

**Metal Manufacturing 1: Welding – One Trimester - .5 Credit**

**Prerequisites:** none

**Additional Credits / Certifications:**

- This course may be articulated for credit through Mid-State Technical College.

**Coursework:** Students will learn the basics of metallurgy and the basic physical, chemical, and mechanical properties of metal. Students will learn how different metals might be produced, fastened, cut to size, and how manufacturers use metal to create useful object. Students will learn the proper techniques for cutting metal, with possible tools such as gas torches, friction saws, iron workers, and plasma cutters. Welding will be the main emphasis in this course, where students will learn through theory and practice the following weld joints on SMAW, GMAW, and FCAW welders: flat weld, lap weld, butt weld, "T" weld, cylindrical to flat surface weld, and cylindrical (pipe) weld. In order to complete this course, students must participate in both online materials and welding in the shop.

**Metal Manufacturing 2: Machining – One Trimester - .5 Credit**

**Prerequisites:** A "75%" or higher in Metals 1 OR the permission of the instructor

**Class Note:** Basic Algebra skills recommended

**Coursework:** Students will re-visit information regarding the basics of metallurgy and the basic physical, chemical, and mechanical properties of metal. Students will begin to learn about the machining aspect of metal manufacturing in this class. Students will learn how to properly read blueprints and machine stock to specified dimensions to create useful objects. Students will learn how to use a manual 3 axis mill to machine an entrapped cube and a manual lathe to machine non-ferrous stock into a screwdriver. Basic heat-treatment processes will be covered in this course when completing the screwdriver project. Finally, students will learn how to machine different parts of a furniture dolly to specific sizes and will manufacture a finished furniture dolly.

**Metal Manufacturing 3: Welding – One Trimester - .5 Credit**

**Prerequisites:** An "80%" or higher in Metals 2 OR the permission of the instructor

**Additional Credits / Certifications:**

- This course may be articulated for credit through Mid-State Technical College.

**Coursework:** Welding will be the main emphasis in this course, where students will learn through theory and practice the following weld joint on SMAW and GTAW welders: flat weld, lap weld, butt weld, "T" weld, cylindrical to flat surface weld, and cylindrical (pipe) weld. In order to complete this course, students must be highly motivated and participate in both online materials and welding in the shop.

**Woodworking 3: Independent Studies – One Trimester – .5 Credit**

**Prerequisites:** An "80%" or better in Woods 2 AND the permission of the instructor. The student and parent must also sign an agreement before the student may take this course. Students are recommended to be at least a Junior (11th grade) for this course.

**Class Note:** Student is responsible for ALL project costs.

**Coursework:** In this course, students will independently research woodworking projects. Students will then choose a project and write the procedure for building the project, along with doing a material cost sheet. Students will then build the project according to their plan and will be evaluated upon the quality of work that was performed on their project. Finally, students will evaluate their project and the process that they used to build their project. Students must be self-motivated and are expected to complete an appropriate amount of work for the time allotted

**Woodworking 4: Independent Studies – One Trimester – .5 Credit**

**Prerequisites:** An "85%" or better in Woods 3 AND the permission of the instructor. The student and parent must also sign an agreement before the student may take this course. Students are recommended to be at least a Junior (11th grade) for this course.

**Class Note:** Student is responsible for ALL project costs.

**Coursework:** This course is a continuation of Woodworking 3. In this course, students will independently research woodworking projects. Students will then choose a project and write the procedure for building the project, along with doing a material cost sheet. Students will then build the project according to their plan and will be evaluated upon the quality of work that was performed on their project. Students must be self-motivated and are expected to complete an appropriate amount of work for the time allotted.